

MBS College

Sector-9, PSP Area, Dwarka, New Delhi-110077
Affiliated to GGSIPU and Approved by CoA & AICTE

ANNEXURE 8A

STATUS OF LABORATORIES

2025-26

- 1. SURVEY LAB**
- 2. ENVIRONMENTAL/CLIMATOLOGY LAB**
- 3. MATERIAL MUSEUM**
- 4. MODEL WORKSHOP**



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[2025-2026]

SURVEYING LAB

INTRODUCTION: -

Surveying is basically an art and science of mapping and measuring positions of point. Levelling is a branch of Surveying, the object of which is to establish points at given elevation and it deals with a measurement in a vertical plane.

It is the art of measuring horizontal and vertical distances between objects, of measuring angles between lines, of determining the direction of lines, and of establishing points by predetermined angular and linear measurements. Distances, angles, directions, locations, elevations, areas, and volumes are thus determined from the data of the survey. Our institution is indulged keenly in teaching a student practically by surveying the site with the Survey instruments





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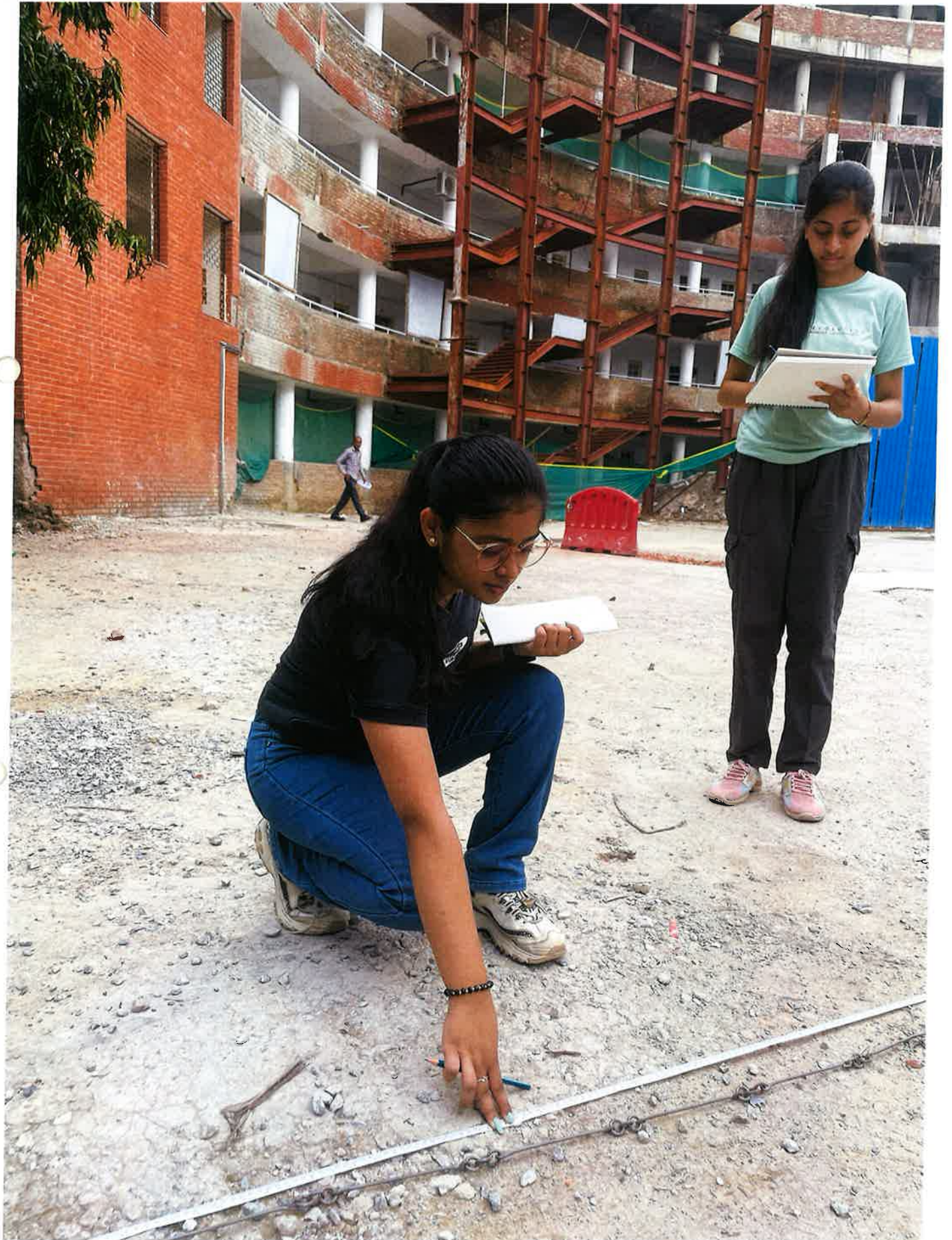
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Surveying Equipments: -

S.No.	NAME	USE
1.	Measuring Tapes (Length 20 M, 30 M, 50 M)	Measurements
2.	Surveying Chains (20 m & 30 m)	Measurements of Distance on the Ground (accuracy) length - 66 feet having 100 links
3.	Arrow	Used for Marking
4.	Peg	Also used for mark location
5.	Ranging Rods (200 m)	To locate intermediate points
6.	Offsets Rods (3 m Length)	For placing right angle & Marking Offset
7.	Plumb Bob	For Centering Purpose
8.	Cross Staff	For setting out right angles
9.	Optical Square	For right angle
10.	Prism Square	To set out offset line at right angle
11.	Prismatic Compass	To measure magnetic meridian/ bearings
12.	Surveyor Compass	For measuring angles (deflection angles)
13.	Theodolite	Measure Vertical & Horizontal Angles


Faculty In-charge
Er. Kapil Prabhat Verma


Dean
Ar. Praveen Arora


Lab In-charge
Er. Ajay Negi


Director
Prof. Bijay Dash





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List of Surveying Lab Equipments

S.No.	Name of Equipment	Quantity
1	Dumpy Level	1 No.
2	Vernier Theodolite	2 Nos.
3	Leveling Staff	3 Nos.
4	Magnetic Compass	2 Nos.
5	Plane Table Set	2 Nos.
6	Surveyor Compass	1 No.
7	Metric Chain	3 Nos. (2 – 20 m) (1 – 30 m)
8	Measuring Tape 30 mtrs.	2 Nos.
9	Measuring Tape 15 mtrs.	3 Nos.
10	Auto Level	1 No.
11	Ranging Rods	6 Nos.


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ENVIRONMENTAL LAB / CLIMATOLOGY LAB

Climatic information of a place is an important parameter while designing buildings. Climatology is a part of B.Arch program. In order to make students aware of the importance of designing according to the climate, an environmental/ climatology lab with required displays and equipment's has been established.



In this lab there are instruments to measure temperature, humidity, atmospheric pressure, wind velocity, rainfall, wind speed, amount of light in a space/on a particular work surface etc. through - Thermometer (Glass/Digital), Wet/Dry Hygrometer, Infrared Thermometer, Barometer, Anemometer, Lux Meter, Altimeter, Rain Gauge, Wind Vane, Magnetic Compass.



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Session 2025-26

LIST OF ENVIRONMENTAL / CLIMATOLOGY EQUIPMENTS

S.No.	Item Name	Qty.
1	Laboratory Thermometer (Glass)	3
2	Mercury Thermometer	1
3	Thermometer (Digital)	1
4	Wet & Dry Bulb Hygrometer	1
5	Digital Hygrometer	2
6	Infrared Thermometer	1
7	Barometer	1
8	Anemometer	2
9	Lux Meter	2
10	Altimeter	1
11	Rain Gauge	1
12	Wind Vane	1
13	Magnetic Compass	2

LAB CAPABILITIES

- Measurement of inside and outside air temperature.
- Measurement of temperature from thermal radiations.
- Measurement of level of luminance or intensity of light.
- Measurement of relative humidity.
- Measurement of atmospheric pressure.
- Measurement of wind velocity and wind direction
- Measurement of Rain fall
- Measurement of Altitude

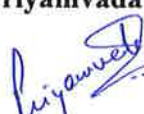
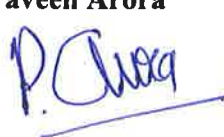
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ENVIRONMENTAL / CLIMATOLOGY LAB

S.No.	NAME	USE
1	Laboratory Thermometer (Glass)	To measure temperature
2	Mercury Thermometer	To measure temperature
3	Thermometer (Digital)	To measure temperature
4	Wet & Dry Hygrometer	To measure relative humidity
5	Digital Hygrometer	To measure humidity
6	Infrared Thermometer	To measure temperature quickly, at a distance, and without touching the object
7	Barometer	To measure atmospheric pressure
8	Anemometer	To measure wind velocity
9	Lux Meter	To measure the amount of light in a space/on a particular work surface.
10	Altimeter	To measure measures altitude, the distance of a point above sea level.
11	Rain Gauge	To measure rainfall
12	Wind Vane	To measure wind direction
13	Magnetic Compass	To determine direction

Ar. Neelam & Ar. Priyamvada Faculty In-charge  	Prof. Praveen Arora Dean 
Mrs. Kumari Shalini Lab Assistant 	Prof. Bijay Dash Director  

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MATERIAL MUSEUM

The college museum houses a diverse collection of samples related to building materials, architectural products, and raw materials used in both interior and exterior works. It also features various types of trusses, joinery details, and profiles of doors and windows, serving as a valuable resource for reference and teaching purposes. Additionally, the museum displays detailed models of tensile structures, along with electrical and sanitary fixtures, as well as samples of wall tiles, laminates, and different kinds of glass.

Furthermore, the museum includes a range of presentations and models designed to help explain building structures and their services. It also contains an extensive collection of brochures, material samples, and market surveys that have been gathered and prepared by students.



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List of Equipment's available

S.No.	Name of Equipment	Qty.
1	Sprit Level	2Nos
2	Trowel	4Nos.
3	Trowel (Wooden)	1No.
4	Paint Roller	1No.
5	Pincer	3Nos.
6	Plumb Bob	7Nos
7	Screw Driver	1No.
8	Square Measurement	16Nos.
9	Hammer	1No.
10	Spades	3Nos.
11	Shovel	3Nos.
12	MeasuringTape5mtrs	1No.
13	Pickaxe	3Nos.
14	Brick Hammer	1No.

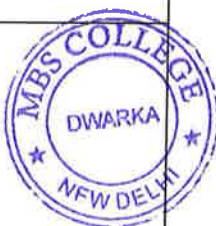


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Construction Yard Equipments

S.No	NAME	USE
1	Sprit Level	For Surface Level Indication
2	Trowel	To lift and apply cement mortar
3	Paint Roller	Painting Large/Flat Areas such as walls, floors and Ceilings.
4	Pincer	For holding or pulling something
5	Plumb Bob	For checking verticality of structure
6	Screw Driver	For insertion and removal of screws
7	Square Measurement	Measure the area of a two-dimensional space
8	Hammer	For general carpentry, framing, nail pulling, cabinet making, assembling furniture, upholstering, finishing, riveting, bending or shaping metal, striking masonry drills etc.
9	Spades	For digging soil for foundation
10	Shovel	To move loose, granular materials (like dirt, gravel, grain, or snow) from one spot to another
11	Measuring Tape 5mtrs	For measurement purposes.
12	Pick axe	Excavation

Ar. Smita Patra & Ar. Prachi Faculty In-charge 	Prof. Praveen Arora Dean 
Mrs. Payal Dev Lab Assistant 	Prof. Bijay Dash Director  

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MODEL WORKSHOP

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Model Workshop is the first step for any architecture student to conceptualize and visualize the difference between two dimensional and three dimensional objects which at a later stage helps them to develop their design approach in a better manner like development of surfaces, helps to develop an eye for scale and proportion.



Materials used by students vary from ivory sheets to sun boards, clay, POP, thermocol, wires, etc. They are acquainted about the usage of various materials on the basis of properties. The space presently designated for model workshop is being used for Carpentry works, Art design models and Exhibit models prepared by students for thesis and research work.



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A model workshop is an essential learning space that supports practical understanding and creativity. By building and testing models, learners gain valuable experience that is crucial for success in technical and design-related field



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List of Equipment's Model Workshop

S.No.	Name of Equipment	Qty.
1	Bench Vice 5"	10 Nos.
2	Chisel 8"	05 Nos.
3	Carpenter's Hammer	03 Nos.
4	Screw Driver	03 Nos.
5	Cutting Plier 8"	04 Nos.
6	Steel Scale 24"	01 Nos.
7	Steel Scale 12"	01 Nos.
8	Right Angle 10"	10 Nos.
9	Hand Drill M/C	03 Nos.
10	Right Angle (4" & 6")	06 Nos.
11	Hand Saw 10"	11 Nos.
12	Jig Saw (Machine)	02 Nos.
13	Drill Machine	03 Nos.
14	Drill Bit Set	01 Set
15	Planes Metallic	08 Nos.
16	Planner	02 Nos.
17	Plumb Bob	03 Nos.
18	Nail Remover	04 Nos.
19	Measuring Tape (7, 10 & 15 m)	01 Each
20	Clamp 10"	01 No.
21	Clamp 8"	05 Nos.
22	Hack Saw Blade	05 Nos.
23	Equaliser	02 Nos.
24	Steel Hand Saw	05 Nos.
25	Wood Chisel Set	03 Nos.
26	Wood Chisel (Ingco HWC0812)	03 Nos.
27	Brown Kail Wood, For Window Frame	10 Pcs.
28	36 Anchor Sandpaper	01 Nos.
29	Wet & Dry Sand Paper (Waterproof)	01 Nos.
30	Hand Plane	03 Nos.
31	Bosch Impact Drill Machine	03 Nos.
32	Iron Human powered Drill Machine	02 Nos.
33	Sabre Saw blades	10 Nos.
34	Screwdrivers	03 Nos.
35	Hand Hack Saw Blades	10 Nos.
36	Filers	03 Nos.
37	Nails, Screws, etc.	250 Gms.

Ar. Divesh Wadhwa Faculty In-charge 	Prof. Praveen Arora Dean 
Mr. Om Pal Workshop Superintendent 	Prof. Bijay Dash Director 

